



LBNL Laser Safety Program, Laser Safety by a Cooperative Effort

Temporary Work Authorization

Work as described below may be performed during the stated period after all required concurrences and authorizations have been obtained.

Effective Date: Nov 10, 2010

Expiration Date: Nov 24, 2010

Work Location: Building 6, Advanced Light Source **Room:** Beamline 7.3.3 Hutch

Maximum duration: two weeks

Work Scope: Limited time experimental run.

Controls Required: I am issuing a TWA as the Laser Safety Officer Designee for LBNL per ANSI Z136.1 Safe Use of Laser, the LBNL Work Smart Standard and Pub 3000, chapter 16. My hazard evaluation conclusion is that engineering and temporary administrative controls listed below are sufficient to mitigate the laser hazard:

- All open beam laser work will be conducted inside the Beamline hutch with the door closed;
- The hutch door will be posted with a laser notice sign and a flashing LED;
- The laser users will have completed EHS 302 and receive an EHS 303 review from the LSO or designee;
- Laser protective eyewear will be worn inside the hutch when open beams are present;
- The user in the hutch is responsible for anyone entering the hutch with the laser on;
- Hutch windows will be covered during laser operation;
- Sample placement and exchange will be conducted with the laser off or blocked;
- The key to the laser will be removed during periods of prolonged disuse; and
- Violation of any of these controls will constitute a stop work.

uv-vis

Personnel Included in this Authorization (signature denotes verification that training in the provisions of this Temporary Work Authorization has been provided)

Work Leader Eric Schaible [Signature] 11/10/10
Name Signature Date

(Work Leader is responsible for assuring that all required training, including job- and task-specific training, is provided prior to beginning work)

Kyungmin Lee [Signature] 11/10/10
Name Signature Date

Name Signature Date

Name Signature Date

Name Signature Date

Concurrences and Work Authorization

Principal Investigator Concurrence Hilmar Kerner [Signature] 11-10-10
Name Signature Date

EH&S Concurrence [Signature] 11-10-10
Name Signature Date

Work Authorization [Signature] 11/10/10
Name Signature Date

Completed form (all required signatures) is to be faxed to Ken Barat, ext. 2323 or MS 71-259